ALL IN ONE TOUCHSCREEN COMPUTER

AIO-W210-MTL

10.1" WXGA Capacitive IP65 All In One Touchscreen Computer with Intel® Core™ Ultra Series 1 Processors, 3x LAN, 3x USB, 1x Type C, 2x COM, 2x DP

Features

- 10.1" (16:10) WXGA All-in-One Touchscreen Computer
- World Class Certifications for Safety and Reliability: CE/FCC/CB/UL/UKCA/IC
- Front IP65 Rating for protection against water and dust
- Scratch Resistant 7H Glass Hardness
- Versatile Display Outputs, 2x DP++ and LVDS/eDP
- Backlight lifetime 30,000 Hours

Specifications

Display

IP Rating	Front IP65
LCD Size	10.1" (16:10)
Max. Resolution	1280 x 800 (WXGA)
Brightness (cd/m²)	400 nits
Contrast Ratio	800:1
LCD Color	16.7M
Pixel Pitch (mm)	0.169(H) x 0.1695(V)
Viewing Angle	89/89/89/89 (Typ.) (CR>=10)
Backlight Lifetime	30,000 Hours (LED Backlight)

Touch

Touch Type	Projected Capacitive Touch
Surface Hardness	7H / IK07
Multi-touch	10 point (Support Glove Mode)
Anti-noise	CS 10V rms

System

Processor	• Intel® Core™ Ultra 5 Processor 125U 12M Cache, up to 4.30 GHz (2+8+2 core) • Intel® Core™ Ultra 7 Processor 155U 12M Cache, up to 4.80 GHz (2+8+2 core)
System Chipset	SoC integrated
System Memory	1x 262-Pin DDR5 5600MHz SO-DIMM. Max. up to 32GB (Non-ECC)
LAN Chipset	GbE1: Intel i226-LM 2.5GbE LAN PXE iAMT Support GbE2: Intel i226-V 2.5GbE LAN PXE iAMT Support GbE3: Intel i226-V 2.5GbE LAN PXE iAMT Support
Audio Codec	Realtek ALC897 High Definition Audio CODEC
BIOS	AMI uEFI 256MB SPI flash
Watchdog	Software Programmable Supports 1~255 sec. System Reset
TPM	dTPM2.0, fTPM2.0

Storage

M.2	1x M.2 M Key (2280, PCIe x4 Gen 4/SATA) support for NVMe/SATA SSD, Auto Detect

Expansion

M.2	1x M.2 B Key (3042/3052, PCIe x2+USB 3.0+USB 2.0) support for 4G/5G 1x M.2 E Key (2230, PCIe+USB 2.0) for Wifi/Bluetooth

I/O

DisplayPort	2x DisplayPort
COM	COM 1: RS-232/422/485 COM 2: RS-232
USB	1x USB 3.2 Type-C (5 Gbps) 2x USB 3.2 Gen 1 (5 Gbps) 1x USB 2.0
LAN	3x 2.5GbE LAN
Audio	1x Line-Out +MIC
SIM	1x SIM Socket
Others	Support up to 6x Antenna (optional)

Operating System

Windows	Windows 10 / Windows 11
Linux	Ubuntu 22.04 / 24.04 LTS

Power

Power Adapter	150W (20V/7.5A, Default)
Power Supply Voltage	DC 12~24V
Power Connector	DC Jack 5.5mm/2.5mm

Environment

Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Relative Humidity	10% to 80% (non-condensing)
Certification	UL 62368 Ed. 3, CE, FCC Class A, CB, UKCA, IC
Vibration	With SSD: 3 Grms (5 - 500 Hz, 0.5 hr/axis)
Shock	With SSD: 20G half-sin 11ms

Physical

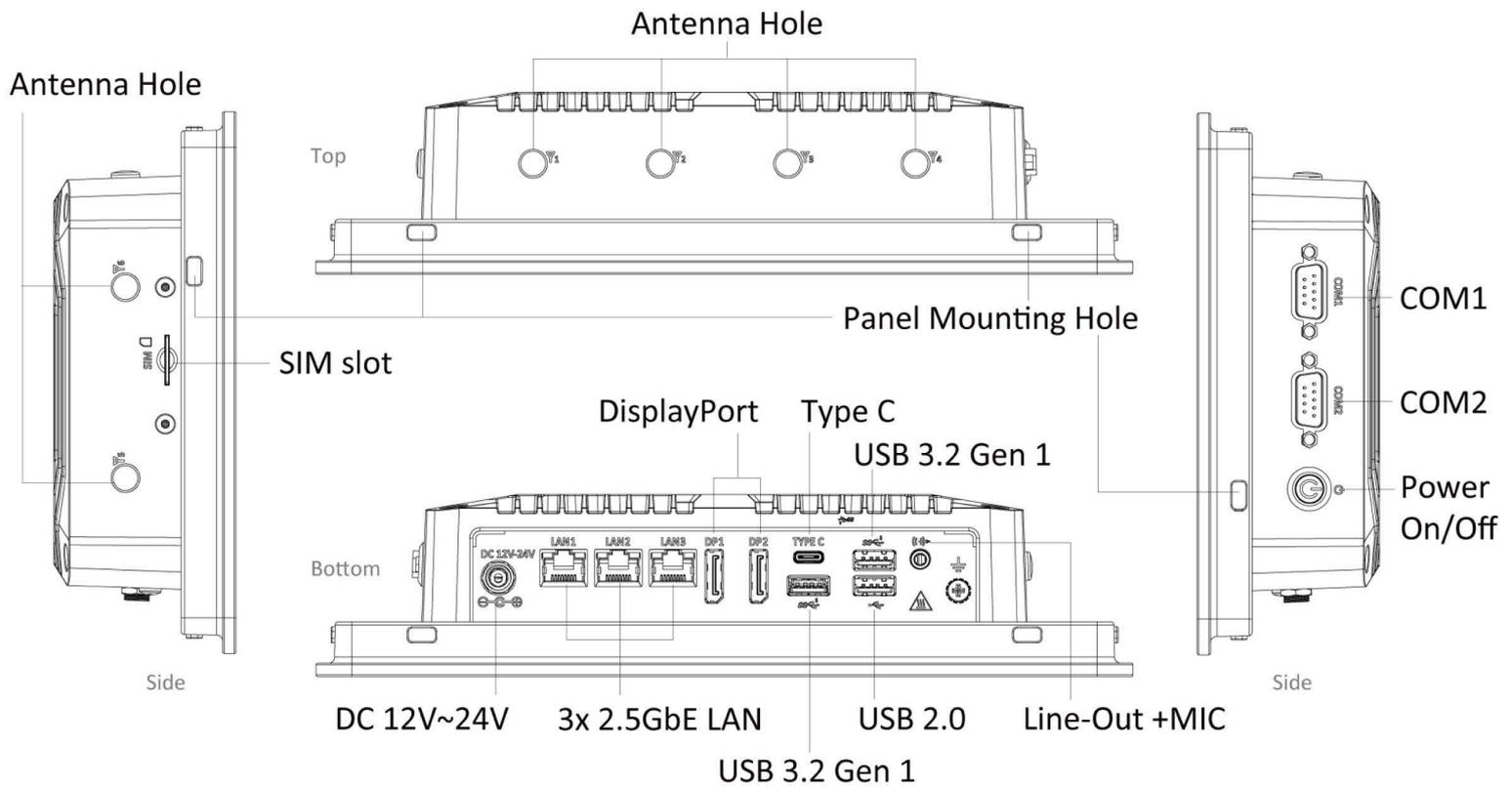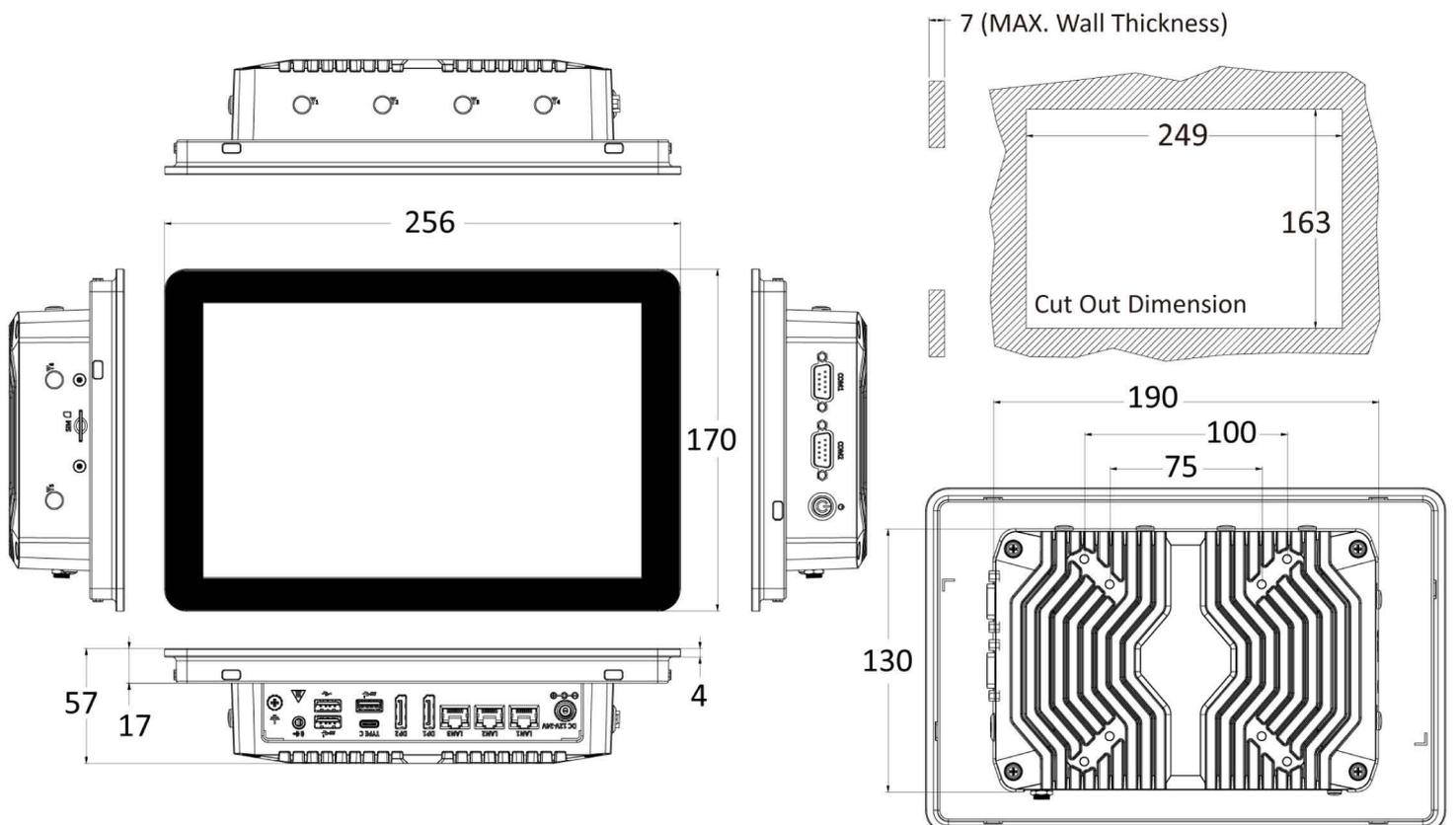|	
Dimensions	256 (W) x 170 (H) x 57 (D) mm
Weights	1.4 kg
Mounting	VESA Mount (75mm x 75mm/100mm x 100mm) Panel Mount (optional)

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External I/O Mechanical Layout

Antenna Hole

Antenna Hole

Top

Antenna Hole

SIM slot

Panel Mounting Hole

DisplayPort   Type C

USB 3.2 Gen 1

Bottom

COM1

COM2

Power On/Off

DC 12V~24V   3x 2.5GbE LAN   USB 2.0   Line-Out +MIC

USB 3.2 Gen 1

Side

Side

Dimension

Unit: mm

256

170

57

17

4

7 (MAX. Wall Thickness)

249

163

Cut Out Dimension

190

100

75

130

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Available Models

Model No.	Description
AIO-W210C-125U-P	10.1" Full WXGA Capacitive IP65 All In One Touchscreen Computer with Intel® Core™ Ultra 5 125U Processors, 3x LAN, 3x USB, 1x Type C, 2x COM, 2x DP
AIO-W210C-155U-P	10.1" Full WXGA Capacitive IP65 All In One Touchscreen Computer with Intel® Core™ Ultra 7 155U Processors, 3x LAN, 3x USB, 1x Type C, 2x COM, 2x DP

Optional Accessories

Model No.	Description
1-E09A15001	Adapter Output With Lock 20VDC 7.5A 150W / Input 100~240V
3-WIFI0801S10	WIFI 6E Module KIT, Intel, 2T2R & BT 5.3
3-AI101040S10	AIO-W210 Panel Mount Bracket Kit
1-TPWR00118	3P Terminal Block(Female) To DC Plug 5.5x2.5 With Lock_100 mm_For AIO Series
1-TPCD00008	AC Power Cord, 3-pin US Type, 183cm
1-TPCD00009	AC Power Cord, 3-pin EU Type, 183cm
1-TPCD00011	AC Power Cord_Round_3Pin_1830mm_IEC-320-C5 To UK Type

Packing List

1x AIO-W210-MTL Series Touchscreen Computer
1x Adapter Output 20V 7.5A 150W
1x 128G M.2 M Key NVMe SSD
1x 8GB DDR5 5600 MT/s

Compliances and Standards

Shock	With SSD: 20G half-sin 11ms IEC60068-2-27:2008 Designed to comply with MIL-STD-810G Method 516.7 Procedure I
Vibration	With SSD: 3 Grms (5 - 500 Hz, 0.5 hr/axis) IEC60068-2-64:2008 Designed to comply with MIL-STD-810G Method 514.7 Procedure I
Operating Temperature	-10°C to 50°C IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat test procedure) IEC60068-2-3:2007 (Damp heat, steady state, test procedure) IEC60068-2-14:2009 (Wide temperature range thermal shock)
EMI	• FCC Class A (47 CFR part 15.109 and part 15.107) • CE • ICES-003 • UKCA
Safety	• UL Safety: UL62368-1, 3rd Ed., (cULus) • Test prcedure: CB Scheme • Standard: IEC 62368-1:2018